

# Installation Manual

NORITZ AMERICA  
CORPORATION

## CONDENSING TANKLESS GAS WATER HEATER

EZ111DV (GQ-C3259WX-FF US)  
EZ98DV (GQ-C2859WX-FF US)

Potential dangers from accidents during installation and use are divided into the following three categories. Closely observe these warnings, they are critical to your safety.



### DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



### WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



### CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

**WARNING:** If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.



Prohibited



Disconnect  
Power



Ground



Be sure to do



## CAUTION

### Requests to Installers

- In order to use the water heater safely, read this installation manual carefully, and follow the installation instructions.
- Failures and damage caused by erroneous work or work not as instructed in this manual are not covered by the warranty.
- Check that the installation was done properly in accordance with this Installation Manual upon completion.
- After completing installation, please either place this Installation Manual in a plastic pouch and attach it to the side of the water heater (or the inside of the pipe cover or recess box if applicable), or hand it to the customer to retain for future reference. Also, be sure to fill in all of the required items on the warranty and to hand the warranty to the customer along with the Owner's Guide.



FOR USE IN RESIDENTIAL OR MANUFACTURED HOME APPLICATIONS.  
Installation must conform with local codes, or in the absence of local codes, the National Fuel Gas Code, ANSI Z223.1/NFPA 54-latest edition and/or the Natural Gas and Propane Installation Code CSA B149.1 - latest edition.



Low NOx Approved by SCAQMD  
14 ng/J or 20 ppm  
(Natural Gas Only)

When applicable, installation must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280 or the Canadian Standard CAN/CSA-Z240 MH Mobile Homes, Series M86.

Noritz America reserves the right to discontinue, or change at any time, the designs and/or specifications of its products without notice.



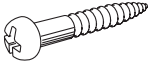
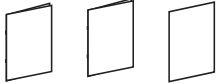
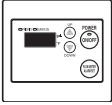

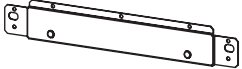
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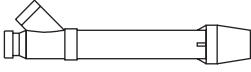

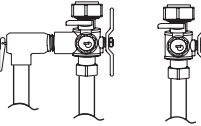

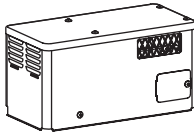
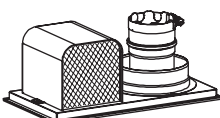
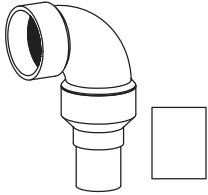
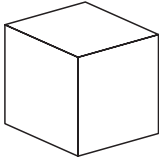
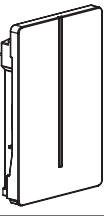



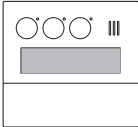
# 1. Included Accessories

The following accessories are included with the unit. Check for any missing items before starting installation.

Part	Shape	Q'ty	Part	Shape	Q'ty
Anchoring Screw		7	Owner's Guide, Warranty, Installation Manual (this document)		1 each
Remote Controller (See p. 44)		1	Remote Controller Cord (6ft (2m))		1
Wall Mounting Bracket		1			

## 2. Optional Accessories

The accessories listed below are not included with the units, but may be necessary for installation.

Part	Shape	Q'ty	Part	Shape	Q'ty
Quick Connect Cord (QC-2)		1	Remote Controller Cord (26ft (8m))		1
PVC Concentric Termination 2"(50mm) : PVC-2CT 3"(75mm) : PVC-3CT		1	Bird Screen for 3" (75mm) PVC VT3-PVCS		2
Isolation Valves* (includes pressure relief valve)		1 each	Bird Screen for 2"(50mm) PVC VT2-PVCS		2
Outdoor Vent Cap (VC-6)		1	Flex Vent 2" Conversion Kit (EZ2-CK)		1
2" SV Conversion Kit (SV-CK-2) ( • 90° Elbow (With Inlet Screen) • 2"x3" Increaser coupling • 2" Pipe • Installation Manual (Check List) )		1 each	Flex Vent 2" Kit 25 Feet** (EZ2FVK-1) Flex Vent 2" Kit 35 Feet** (EZ2FVK-2)		1
Noritz Connect Wireless Adapter NWC-ADAPTER (NAW-1 US)		1	3"(75mm) Horizontal Hood Termination (PVT-HL)		2
Plastic Rain Cap*** (PRC-1)		1	Neutralizer (NC-1) (For 1 water heater)		1
Remote Controller (RC-9018M)		1			

Note: Additional vent pieces are available; consult the latest product catalogue for details.

\* Isolation valves are necessary for flushing the Heat Exchanger. They allow for easy flushing of the system.

\*\* The installation of Flex Vent 2" Kit (EZ2FVK-1 and EZ2FVK-2) is prohibited in Canada.

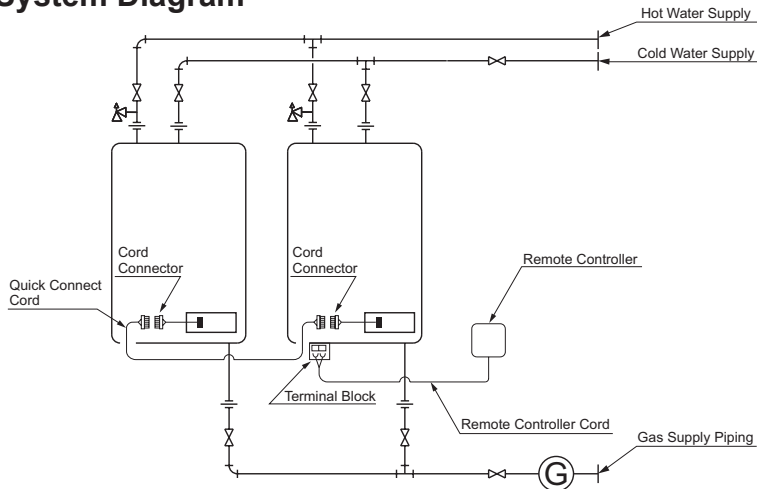
\*\*\* Not approved for use in Canada.

# 3. Quick Connect Multi System Installation

- The Quick Connect Multi System allows the installation of two units together utilizing only the Quick Connect Cord.

The Quick Connect Cord is 6 ft.(2m) long. Install the units 3-18" (75-457mm) apart from each other to ensure the cord will be able to reach between the units. (See Typical Plumbing diagram). (If the distance between the two units is too great, not only will the cord not be able to reach, but the water temperature may also become unstable because of the difference in pipe length between the two units).

## System Diagram

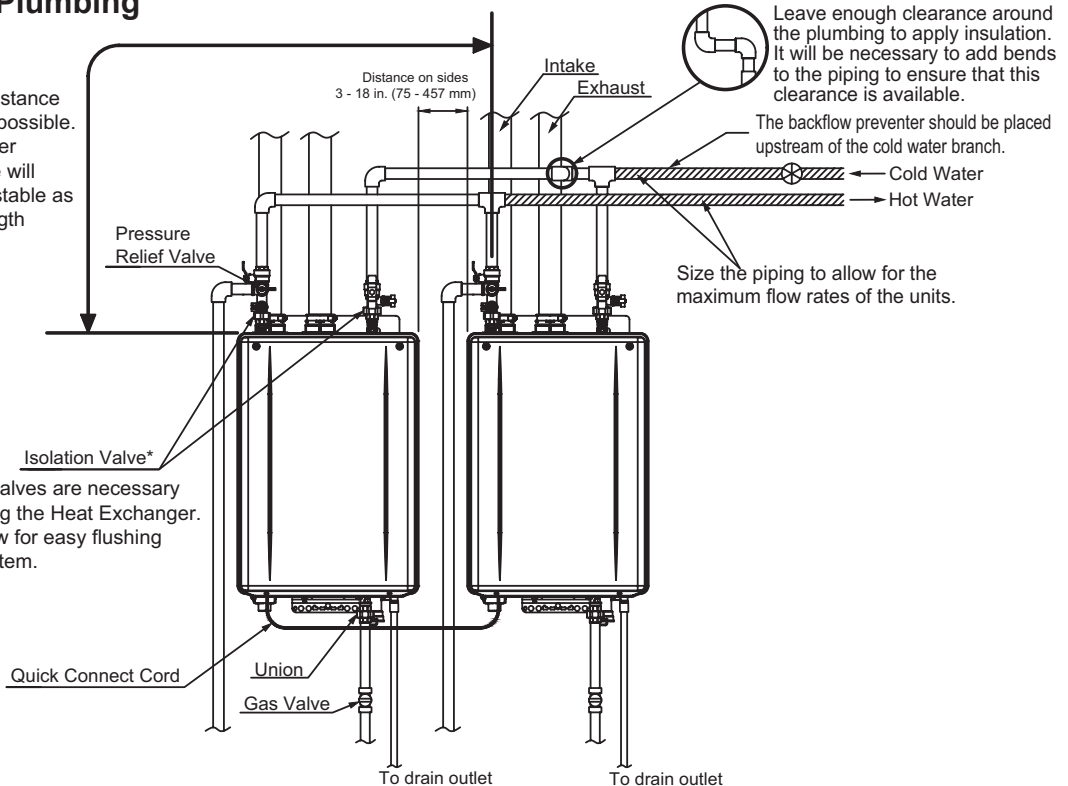


\* When connecting two units, use only a single remote controller.

**Note:** Connect the remote controller to only one of the units. Units must be same model in order to quick connect.

## Typical Plumbing

Make this distance as short as possible. The hot water temperature will become unstable as the pipe length increases.



\* Isolation valves are necessary for flushing the Heat Exchanger. They allow for easy flushing of the system.

- Insulate the hot water piping to prevent heat loss. Insulate and apply heating materials to the cold water supply piping to prevent heat loss and freezing of pipes when exposed to excessively cold temperatures.

# 4. Before Installation

## DANGER

### Checkup

- Check the fixing brackets and vent pipe yearly for damage or wear. Replace if necessary.

## WARNING

### Precautions on Vent Pipe Replacement

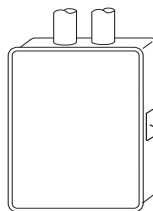
- The vent system will almost certainly need to be replaced when this appliance is being installed. Only use vent materials that are specified in this Installation Manual for use on this appliance. Refer to the "Venting the Water Heater" section for details. If PVC, CPVC, or Category IV listed pipe is already installed, check for punctures, cracks, or blockages and consult with the vent pipe manufacturer before reusing. If the flexible polypropylene pipe is already installed, replace to the new flexible polypropylene pipe. Improper venting may result in fires, property damage or exposure to Carbon Monoxide.

### Snow Precaution

- If this product will be installed in an area where snow is known to accumulate, protect the vent termination from blockage by snow drifts or damage from snow falling off of roofs.

### Check the Gas

- Check that the rating plate indicates the correct type of gas.
- Check that the gas supply line is sized for 199,900 or 180,000 Btuh.  
199,900 Btuh : EZ111DV(GQ-C3259WX-FF US)  
180,000 Btuh : EZ98DV(GQ-C2859WX-FF US)



e.g. EZ111DV(GQ-C3259WX-FF US)

Model (Modèle)	: EZ111DV(GQ-C3259WX-FF US)
Type of Gas (Type de gaz)	: Natural Gas (Gaz Naturel)
Input Rating (Débit calorifique)	: Max. 199,900 Btuh - Min. 18,000 Btuh
Recovery Rating (Capacité de recouvrement)	: 237 Gal/h (897 l/h)
Initial Charge (Chargement initial)	: Min. 3.5" W.C. - Max. 10.5" W.C.

### Check the Power

- The power supply required is 120VAC, at 60Hz.  
Using the incorrect voltage may result in fire or electric shock.

### Use Extreme Caution if Using With a Solar Pre-Heater

- Using this unit with a solar pre-heater can lead to unpredictable output temperatures and possibly scalding. If absolutely necessary, use mixing valves to ensure output temperatures do not get to scalding levels. Do not use a solar pre-heater with the quick-connect multi-system.

### Precautions for Mobile Home Installation

- Verify that the gas supply type matches the gas type listed on the rating plate. If a gas conversion must be done, follow the instructions listed in the gas conversion kit manual.
- If this product will be installed indoors, usage of the SV conversion kit (SV-CK-2) and Flex Vent 2" Conversion Kit (EZ2-CK) are prohibited. Make sure to follow all clearance and venting requirements outlined in this manual.

## CAUTION

### Do Not Use Equipment for Purposes Other Than Those Specified

- Do not use for other than increasing the temperature of the water supply, as unexpected accidents may occur as a result.

### Check Water Supply Quality

- If the water supply is in excess of 12 grains per gallon (200 mg/L) of hardness, acidic or otherwise impure, treat the water with approved methods in order to ensure full warranty coverage.

## 5. Choosing Installation Site

- \* Locate the appliance in an area where leakage from the unit or connections will not result in damage to the area adjacent to the appliance or to the lower floors of the structure. When such installation locations cannot be avoided, a suitable drain pan, adequately drained, must be installed under the appliance. The pan must not restrict combustion air flow.
- \* As with any water heating appliance, the potential for leakage at some time in the life of the product does exist. The manufacturer will not be responsible for any water damage that may occur.

### DANGER

- Locate the vent terminal so that there are no obstacles around the termination and so that exhaust can't accumulate. Do not enclose the termination with corrugated metal or other materials.

### WARNING

- Avoid places where fires are common, such as those where gasoline, benzene and adhesives are handled, or places in which corrosive gases (ammonia, chlorine, sulfur, ethylene compounds, acids) are present.  
Using the incorrect voltage may result in fire or cracking.
- Avoid installation in places where dust or debris will accumulate.  
Dust may accumulate and reduce the performance of the unit's fan.  
This can result in incomplete combustion.
- Avoid installation in places where special chemical agents (e.g., hair spray or spray detergent) are used.  
Ignition failures and malfunction may occur as a result.
- Carbon Monoxide Poisoning Hazard. Do not install this water heater in a recreational vehicle or on a boat.
- The manufacturer does not recommend installing the water heater in an attic due to safety issues.  
If you install the water heater in an attic:
  - Make sure the unit will have enough combustion air and proper ventilation.
  - Keep the area around the water heater clean. Dust may accumulate and reduce the performance of the unit's fan. This can result in incomplete combustion.
  - Place the unit for easy access for service and maintenance.
  - A drain pan, or other means of protection against water damage, is required to be installed under the water heater in case of leaks.

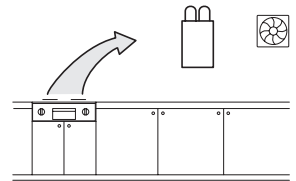


# CAUTION

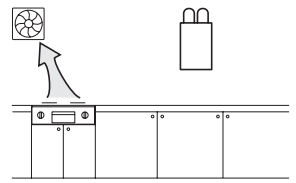
- Install the water heater in a location where it is free from obstacles and stagnant air.
- Consult with the customer concerning the location of installation.
- Do not install the water heater near staircases or emergency exits.
- Install the water heater in an area that allows for the proper clearances to combustible and non-combustible construction. Consult the rating plate on the appliance for proper clearances.
- Do not install the water heater in a place where it may be threatened by falling objects, such as under shelves.
- The water heater must be installed in a place where supply and exhaust pipes can be installed as directed.
- Do not install the water heater where the exhaust will blow on outer walls or material not resistant to heat. Also consider the surrounding trees and animals.  
The heat and moisture from the water heater may cause discoloration of walls and resinous materials, or corrosion of aluminum materials.
- Do not locate the vent termination directed towards a window or any other structure which has glass or wired glass facing the termination.
- Avoid installation where the unit will be exposed to excessive winds.
- Avoid installation above gas ranges or stoves.
- Avoid installation between the kitchen fan and stove. If oily fumes or a large amount of steam are present in the installation location, take measures to prevent the fumes and steam from entering in the equipment.
- Install in a location where the exhaust gas flow will not be affected by fans or range hoods.
- Take care that noise and exhaust gas will not affect neighbors. Avoid installation on common walls as the unit will make some operational noises while it is running.
- Before installing, make sure that the exhaust flue termination will have the proper clearances according to the National Fuel Gas Code (ANSI Z223.1-latest edition) or the Natural Gas and Propane Installation Code (CSA B149.1).



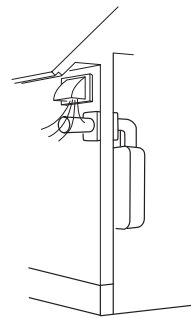
Prohibited



Be sure to do



Prohibited



State of California: The water heater must be braced, anchored or strapped to avoid moving during an earthquake. Contact local utilities for code requirements in your area or call: 1-866-766-7489 and request instructions.

The Commonwealth of Massachusetts:

- 1) This water heater can only be used in outdoor applications if the usage is restricted to summertime usage exclusively.
- 2) The water heater can be used for hot water only and not in a combination of domestic and space heating.

For Venting Manufacturers Requirements, see websites listed below:

Noritz N-Vent

[www.noritz.com](http://www.noritz.com)